










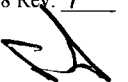


Work Order ID 72045

Monday, July 18, 2011 1:03:03 PM

Page 1

Item ID:	D3688-1	Accept		Setup	Start	
Revision ID:					Stop	
Item Name:	STUD					
Start Date:	7/18/2011	Start Qty:	6.00	Cust Item ID:		
Required Date:	7/25/2011	Req'd Qty:	6.00	Customer:		
Reference:						

Approvals:	Process Plan:		Date:	7-10-18	Tooling:		Date:		Run	Start	
	QC:		Date:		SPC (Y/N):		Date:			Stop	

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
Draw Nbr	Revision Nbr								
D3688	Rev C								
100		0.00				6			
	BAND SAW								
Bandsaw	Memo	0.00							
Jeaspa Bandsaw	***DO NOT USE CHOP SAW***								
				<input type="checkbox"/> Cut blank 11.673" long					
				 11/9/12					
110		0.00				6			
	DOOSAN LATHE								
Doosan	Memo	0.00							
Doosan Lathe	1-Turn as per Folio FA718 Rev: _____ & Dwg D3688 Rev: <u> 5 </u> <input type="checkbox"/> 2-Deburr								
	per dwg D3688								
	3-Check .625" bore with DT9530 GO/NO GO Gauge			 11/09/06					
120		0.00				6			
	QC2- Inspect parts off machine FAI/FAIB								
QC	Memo	0.00							
Quality Control				 11/09/06					

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 72045

Monday, July 18, 2011 1:03:03 PM

Page 2

Item ID: D3688-1

Accept

Revision ID:

Item Name: STUD

Start Date: 7/18/2011 Start Qty: 6.00

Required Date: 7/25/2011 Req'd Qty: 6.00

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Run Start

Stop

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

170

QC8- Inspect parts - second check

0.00



QC

Memo

0.00

Quality Control

100% CHECK,CHECK ALL DIMENSIONS AND THREAD FIT

am 2/11/04/07

6

180

PURCHASING

0.00



Purchasing

Memo

0.00

Purchasing

Issue P/O: 15101 ☐ LPI Per ASTM 1417 LEVEL
2 ☐ Certificate of conformity is required

11-10-4

190

Receive & Inspect for Damage & Mat'l Certs

0.00



Packaging

Memo

0.00

Packaging

Ensure certificate of conformity is attached

Pc 11/15 (6)

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____
 Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Picklist Print

Monday, July 18, 2011 1:03:21 PM

Page 1

Work Order ID: 72045

Parent Item: D3688-1

Parent Item Name: STUD

Start Date: 7/18/2011

Required Date: 7/25/2011

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev:A New Issue 08-01-29 JLM Veriified By:EC
IPP Rev:B Material Change 09-01-07 JLM Verified By:EC
IPP Rev:C Added note on Step 2 09-01-26 JLM Verified By:EC
IPP REV:D 10.07.06 revo step 130-160 DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M174PH-H900R1.000		Purchased	No			100	f	32.7000	1.087	6.865263			
17-4SS H900 ROUND BAR 1.00													

Location Loc Qty Loc Code

MAT030 32.7

117445 32.7

01

117446?

on material

M174PHH-900R1.000
M117446

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

DART AEROSPACE LTD		Work Order: 72045
Description: Stud		Part Number: D3688-1
Inspection Dwg: D3688	Rev: C	Page 1 of 1

FIRST ARTICLE INSPECTION CHECKLIST

☒ First Article ☐ Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
Ø0.625	+/-0.010	.625	/			
0.625	+0.004/-0.000	.626	/			
1.25	+0.000/-0.03	1.230	/			
118°	0.5°	118	/			
R0.03	+/-0.030	R0.03	/			
0.11 Ref	+/-0.030	.11	/			
90°	0.5°	90°	/			
Ø0.189	+0.005/-0.001	.191	/			
1.31	+/-0.030	1.31	/			
1.65	+/-0.030	1.65	/			
0.870	+0.000/-0.010	.865	/			
Ø0.659	+0.000/-0.015	.659	/			
11.573	+/-0.015	11.576	/			
2.90	+/-0.030	3.00	/			
3/4-16UNF-2A	N/A		/			
0.075 x 45°	+/-0.010 x 0.5°	.075 x 45°	/			
0.370	+0.000/-0.010	.365	/			
Ø0.189	+0.005/-0.001	.191	/			
R0.25	+/-0.030	R.25	/			
R0.50	+/-0.030	R.50	/			
.825	±.010	.825	/			

Measured by: [Signature]	Audited by: [Signature]	Prototype Approval:	N/A
Date: 11/9/06	Date: 11/02/07	Date:	N/A

Rev	Date	Change	Revised by	Approved
A	09.05.11	New Issue	KJ	[Signature]
B	09.11.04	Dwg Rev updated	KJ	[Signature]

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



LIQUID PENETRANT TEST REPORT

P- 05630

CLIENT 1) ART AEROSPACE DATE OCT-05-2011 PAGE 1 OF 1
ATTENTION LINDA/CHASTALE/IAN/MATT ACUREN JOB NO. 188-11-02189
ADDRESS 1270, ABERDEEN ST. PO/NO. 15101
HAWKES BURY, ON WORK LOCATION AS ADDRESS
PROJECT PT -> WET FLUORESCENT LIQ. PENETRANT ON "4 CROSSBARS", "7 SLEEVES", "9 STUDS"
ITEM(S) EXAMINED SEE BELOW

JOB DESCRIPTION PROCEDURE NO. LT-002 REV./DATE 2007 TECHNIQUE NO. LT-002 REV./DATE 2007
PART NO. MATERIAL ALUMINUM 17-4PH THICKNESS N/A
SCOPE PERFORMED A WET FLUORESCENT LIQ. PENETRANT INSPECTION ON 100% OF THE EXTERNAL SURFACES ON ITEMS MENTIONED BELOW

TEST DETAILS

METHOD ☒ FLUORESCENT ☐ VISIBLE ☒ WATER WASH ☐ SOLVENT REMOVABLE ☐ POST EMULSIFIED
FAMILY BRAND MAGNAFLUX BLACK LIGHT S/N 13798 OUTPUT > 1000 μ W/cm² ☐ AMBIENT < 2 fc
PENETRANT 2L-68 MINIMUM DWELL TIME 10 MIN. LIGHTING EQUIP. ☐ FLASHLIGHT ☐ TROUBLELIGHT ☐ OUTPUT > 100 fc @ SURFACE
PENETRANT REMOVER H2O MINIMUM DRY TIME > 10 MIN. OTHER
DEVELOPER SKD-52 MINIMUM DWELL TIME 10 MIN. LIGHT METER S/N CAL DUE DATE Aug-2012
DEVELOPER TYPE ☒ NON AQUEOUS ☐ AQUEOUS ☐ DRY

TEST SURFACE

SURFACE CONDITION ☐ AS GROUND ☐ AS WELDED ☐ MACHINED ☐ SHOT BLASTED ☒ CLEAN BARE METAL
SURFACE TEMPERATURE ☐ < -4°C/ 20°F ☐ -4°C/ 20°F TO 10°C/ 50°F ☒ 10°C/ 50°F TO 52°C/ 125°F ☐ > 52°C/ 125°F

RESULTS- (☐ METRIC ☐ IMPERIAL)

ITEM ID	DESCRIPTION	STATUS
1	CROSSBAR W.O. ID 71108	✓
2	71109	✓
3	71195	✓
4	71196	✓
5	SLEEVE (2) W.O. ID 72117	✓
6	STUDS (6) W.O. ID 72045	✓
7	STUDS (3) W.O. ID 72042	✓

NO RELEVANT INDICATION WAS DETECTED AS PER APPLICABLE STANDARDS.

11-10-06

Scope of Services

The agreement of Acuren Group Inc. to perform services extends only to those services provided for in writing. Under no circumstances shall such services extend beyond the performance of the requested services. It is expressly understood that all descriptions, comments and expressions of opinion reflect the opinions or observations of Acuren Group Inc. based on information and assumptions supplied by the owner/operator and are not intended nor can they be construed as representations or warranties. Acuren Group Inc. is not assuming any responsibilities of the owner/operator and the owner/operator retains complete responsibility for the engineering, manufacture, repair and use decisions as a result of the data or other information provided by Acuren Group Inc. In no event shall Acuren Group Inc.'s liability in respect of the services referred to herein exceed the amount paid for such services.

Standard of Care

In performing the services provided, Acuren Group Inc. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by Acuren Group Inc.

SIGNATURES

CLIENT REPRESENTATIVE Matthew Munday DTR # E44758
TECHNICIAN (SIGNATURE): [Signature] SIGNATURE
NAME (PRINT): Matthew Munday
1ST TECHNICIAN CGSB LEVEL 2 SNT LEVEL 2 CGSB REG. NO. 3049
2ND TECHNICIAN CGSB LEVEL — SNT LEVEL — CGSB REG. NO. —
REPORT REVIEWED BY: NAME INITIALS